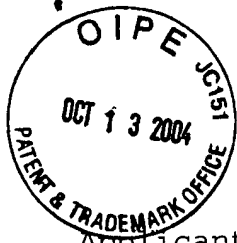




95W/B 2834/1#

TRANSMITTAL LETTER			Attorney Docket Number: PA09-06V02				
Application Number: 09/698,317		Filing Date: 10/27/2000		Examiner: Thomas M. Dougherty		Group Art Unit: 2834	
Invention: <b>HIGH PRECISION ORIENTATION ALIGNMENT AND GAP CONTROL STAGES FOR IMPRINT LITHOGRAPHY PROCESS</b>							
<b>TO THE COMMISSIONER FOR PATENTS:</b> Transmitted herewith are the following documents in the above-identified application. The fee has been calculated as shown below.							
<div><input type="checkbox"/> Amendment (    page(s)), <input checked="" type="checkbox"/> Information Disclosure Statement (5 page(s)), including Transmittal (2 page(s)), Form PTO/SB/08A (3 page(s)), and <input checked="" type="checkbox"/> Copies of (3) cited references; <input checked="" type="checkbox"/> Information Disclosure Statement (9 page(s)), including Transmittal (2 page(s)), Form PTO/SB/08A (7 page(s)), and <input checked="" type="checkbox"/> Copies of (19) cited references; <input checked="" type="checkbox"/> Return Receipt Postcard</div>							
CLAIMS AS AMENDED							
	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	NO. OF EXTRA CLAIMS PRESENT	RATE	ADDITIONAL FEE	
TOTAL CLAIMS		MINUS			\$18.00	\$ n/a	
INDEP. CLAIMS		MINUS			\$86.00	\$n/a	
Information Disclosure Fee					2@\$180	\$ 360.00	
Petition for Extension of Time						\$	
<b>TOTAL FEE</b>						<b>\$ 360.00</b>	
<div><input type="checkbox"/> Applicant claims small entity status under 37 CFR 1.27 <input type="checkbox"/> A check in the amount of \$        is attached. <input checked="" type="checkbox"/> Charge \$360.00 to deposit account number 502650 and credit any overpayment or debit any underpayment to the same deposit account 502650. <input checked="" type="checkbox"/> No additional fee is required, but if any fees are incurred regarding this matter kindly charge deposit account number 502650.</div>							
10/9/04 date			Kenneth C. Brooks Reg. No. 38393 Legal Department Molecular Imprints, Inc. P.O. Box 81536 Austin, Texas 78708-1536 Telephone: 512-339-7760, ext. 243 Facsimile: 512-491-8918				
<div><p align="center"><u>CERTIFICATE OF TRANSMISSION/MAILING</u></p><p>I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to the Commissioner for Patents on</p><div>10-8-04</div><div>Katrina Prati</div><p align="center">Katrina Prati</p></div>							



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Choi et al.

App. No.: 09/<sup>6</sup>98,317

GPAU: 2834

Filing Date: 10/27/2000

Examiner: Thomas M. Dougherty

Dkt. No.: PA09-06V02

Conf. No.: 6298

For: HIGH PRECISION ORIENTATION ALIGNMENT AND GAP CONTROL  
STAGES FOR IMPRINT LITHOGRAPHY PROCESS

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The following information is submitted in compliance with Applicants' duty of disclosure and pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98. The undersigned brings the patents, publications, applications or other information identified in the attached:

☒ Form(s) PTO/SB/08A and/or PTO/SB/08B or PTO/1449

☐ Other:

to the Examiner's attention in the above-identified application. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

FEEES DUE

This Information Disclosure Statement is being filed:

☐ within three months of the filing date of a national application or within three months of entry of the national stage as set forth in § 1.491 in an international application. Therefore, no fee is required.

10/15/2004 AWONDAF1 00000002 502650 09698317

01 FC:1806 180.00 DA

- ☐ before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.
- ☐ during the period specified in § 1.97(c). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application not more than three months prior to the filing of this Information Disclosure Statement.
- ☐ during the period specified in § 1.97(c). Accordingly, the fee set forth in § 1.17(p) is required and provided as shown on the attached Fee Transmittal.
- ☒ during the period specified in § 1.97(d). Accordingly, the fee set forth in § 1.17(p) is required and provided as shown on the attached Fee Transmittal. Additionally, no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of this information disclosure statement.

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Signed: Katrina Prati

Typed Name: Katrina Prati

Date: 10-8-04

Respectfully Submitted,



Kenneth C. Brooks,  
Reg. No. 38,393  
Legal Department  
Molecular Imprints, Inc.  
P.O. Box 81536  
Austin, TX 78758-1535  
(512) 339-7760  
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Sheet

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## **Complete if Known**

Application Number	09/698,317
Filing Date	10/27/2000
First Named Inventor	Choi et al.
Group Art Unit	2834
Examiner Name	Dougherty, Thomas M.
Attorney Docket Number	PA09-06V02

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	E1	4,070,116		Frosch et al.	01-24-1978	
	E2	4,600,309		Fay	07-15-1986	
	E3	4,848,911		Uchida et al.	07-18-1989	
	E4	5,074,667		Miyatake	12-24-1991	
	E5	5,148,036		Matsugu et al.	09-15-1992	
	E6	5,148,037		Suda et al.	09-15-1992	
	E7	5,151,754		Ishibashi et al.	09-29-1992	
	E8	5,179,863		Uchida et al.	01-19-1993	
	E9	5,376,810		Hoenk et al.	12-27-1994	
	E10	5,424,549		Feldman	06-13-1995	
	E11	5,670,415		Rust	09-23-1997	
	E12	5,743,998		Park	04-28-1998	
	E13	5,855,686		Rust	01-05-1999	
	E14	5,948,219		Rohner	09-07-1999	
	E15	6,035,805		Rust	03-14-2000	
	E16	6,150,680		Eastman et al.	11-21-2000	
	E17	6,326,627	B1	Putvinski et al.	12-04-2001	
	E18	2002/0132482	A1	Chou	09-19-2002	
	E19	2002/0167117	A1	Chou	11-14-2002	
	E20	6,482,742	B1	Chou	11-19-2002	
	E21	6,534,418	B1	Plat et al.	03-18-2003	
	E22	6,541,360	B1	Plat et al.	04-01-2003	
	E23	2003/0081193	A1	White et al.	05-01-2003	
	E24	2003/0080471	A1	Chou	05-01-2003	
	E25	2004/0036201	A1	Chou et al.	02-26-2004	
	E26	5,468,542		Crouch	11-21-1995	
	E27	5,366,851		Novembre	11-22-1994	
	E28	5,362,606		Hartney et al.	11-08-1994	
	E29	5,324,683		Fitch et al.	06-28-1994	
	E30	5,212,147		Sheats	05-18-1993	
	E31	5,458,520		DeMercurio et al.	10-17-1995	
	E32	5,453,157		Jeng	09-26-1995	
	E33	5,439,766		Day et al.	08-08-1995	
	E34	5,431,777		Austin et al.	07-11-1995	
Examiner Signature					Date Considered	

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## **Complete if Known**

Application Number	09/698,317
Filing Date	10/27/2000
First Named Inventor	Choi et al.
Group Art Unit	2834
Examiner Name	Dougherty, Thomas M.
Attorney Docket Number	PA09-06V02

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		Number	Kind Code <sup>2</sup> (if known)			
	E35	5,422,295		Choi et al.	06-06-1995	
	E36	5,421,981		Leader et al.	06-06-1995	
	E37	5,417,802		Obeng	05-23-1995	
	E38	5,380,474		Rye et al.	01-10-1995	
	E39	5,374,454		Bickford et al.	12-20-1994	
	E40	5,330,881		Sidman et al.	07-19-1994	
	E41	5,328,810		Lowrey et al.	07-12-1994	
	E42	5,318,870		Hartney	06-07-1994	
	E43	5,244,818		Jokerst et al.	09-14-1993	
	E44	5,242,711		DeNatale et al.	09-07-1993	
	E45	5,240,878		Fitzsimmons et al.	08-31-1993	
	E46	5,108,875		Thackeray et al.	04-28-1992	
	E47	5,053,318		Gulla et al.	10-01-1991	
	E48	4,964,945		Calhoun	10-23-1990	
	E49	4,908,298		Hefferon et al.	03-13-1990	
	E50	4,921,778		Thackeray et al.	05-01-1990	
	E51	4,919,748		Bredbenner et al.	04-24-1990	
	E52	3,783,520		King	01-08-1974	
	E53	6,776,094	B1	Whitesides et al.	08-17-2004	
	E54	5,169,494		Hashimoto et al.	12-08-1992	
	E55	5,173,393		Sezi et al.	12-22-1992	
	E56	5,736,424		Prybyla et al.	04-07-1998	
	E57	5,895,263		Carter et al.	04-20-1999	
	E58	6,150,231		Muller et al.	11-21-2000	
	E59	6,274,294	B1	Hines	08-14-2001	
	E60	6,489,068	B1	Kye	12-03-2002	
	E61	6,514,672	B2	Young et al.	02-04-2003	
	E62	6,561,706	B2	Singh et al.	05-13-2003	
	E63	6,565,928	B2	Sakamoto et al.	05-20-2003	
	E64	2003/011368	A1	Mancini et al.	06-19-2003	
	E65	6,646,662	B1	Nebashi et al.	11-11-2003	
	E66	6,677,252	B2	Marsh	01-13-2004	
	E67	6,703,190	B2	Elian et al.	03-09-2004	
	E68	6,730,256	B1	Bloomstein et al.	05-04-2004	
Examiner Signature					Date Considered	

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<b>Application Number</b>	09/698,317
<b>Filing Date</b>	10/27/2000
<b>First Named Inventor</b>	Choi et al.
Group Art Unit	2834
Examiner Name	Dougherty, Thomas M.
Attorney Docket Number	PA09-06V02

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<b>Application Number</b>	09/698,317
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<b>Filing Date</b>	10/27/2000
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<b>First Named Inventor</b>	Choi et al.
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Group Art Unit	2834
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Examiner Name	Dougherty, Thomas M.
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Attorney Docket Number	PA09-06V02
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## FOREIGN PATENT DOCUMENTS

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Application Number</b>	09/698,317
				<b>Filing Date</b>	10/27/2000
				<b>First Named Inventor</b>	Choi et al.
				<b>Group Art Unit</b>	2834
				<b>Examiner Name</b>	Dougherty, Thomas M.
<b>Sheet</b>	5	<b>of</b>	6	<b>Attorney Docket Number</b>	PA09-06V02

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	E76	Abstract of Japanese Patent 63-138730	
	E77	Abstract of Japanese Patent 55-88332	
	E78	Abstract of Japanese Patent 57-7931	
	E79	Abstract of Japanese Patent 02-92603.	
	E80	Translation of Japanese Patent 02-92603.	
	E81	Abstract of Japanese Patent 02-24848.	
	E82	Translation of Japanese Patent 02-24848.	
	E83	HEIDARI et al., "Nanoimprint Lithography at the 6 in. Wafer Scale," Journal of Vacuum Science Technology, Nov/Dec 2000, pp. 3557-3560, vol. B, no. 18(6)/	
	E84	NERAC.COM Retro Search, "Reduction of Dimension of Contact Holes", August 31, 2004	
	E85	NERAC.COM Retro Search, "Trim Etching of Features Formed on an Organic Layer", September 2, 2004	
	E86	NERAC.COM Retro Search, "Multi-Layer Resists", September 2, 2004	

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Application Number	09/698,317
Filing Date	10/27/2000
First Named Inventor	Choi et al.
Group Art Unit	2834
Examiner Name	Dougherty, Thomas M.
Attorney Docket Number	PA09-06V02

Sheet 6 of 6

## **OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	E87	HU et al., "Flourescence Probe Techniques (FPT) for Measuring the Relative Efficiencies of Free-Radical Photoinitiators", s0024-9297(97)01390-9;"Macromolecules" 1998, vol. 31, no.13 , pp. 4107-4113, 1998 American Chemical Society. Published on Web 05/29/1998	
	E88	FEYNMAN, Richard P., "There's Plenty of Room at the Bottom—An Invitation to Enter a New Field of Physics," 12 pp [online]Retreived 9/23/04 from URL:http://www.zyvex.com/nanotech/feynman.html.	
	E89	CIBA SPECIALTY CHEMICALS BUSINESS LINE COATINGS, "What is UV Curing?", 45 pp [online]Retreived 9/24/04 from URL:http://www.cibasc.com/image.asp?id=4040.	

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1

of

3

**Complete if Known**

<b>Application Number</b>	09/698,317
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<b>Filing Date</b>	10/27/2000
--------------------	------------

<b>First Named Inventor</b>	Choi et al.
-----------------------------	-------------

Group Art Unit	2834
----------------	------

Examiner Name	Dougherty, Thomas M.
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Attorney Docket Number | PA09-06V02

## U.S. PATENT DOCUMENTS

[illegible]

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

2

of

3

**Complete if Known**

<b>Application Number</b>	09/698,317
<b>Filing Date</b>	10/27/2000
<b>First Named Inventor</b>	Choi et al.
<b>Group Art Unit</b>	2834
<b>Examiner Name</b>	Dougherty, Thomas M.
<b>Attorney Docket Number</b>	PA09-06V02

## FOREIGN PATENT DOCUMENTS

[illegible]

Examiner  
Signature

Date  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Sheet	3	of	3
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